



**STATE OF TENNESSEE**  
**DEPARTMENT OF TRANSPORTATION**  
**TRAFFIC OPERATIONS DIVISION**  
SUITE 1800, JAMES K. POLK BUILDING  
505 DEADERICK STREET  
NASHVILLE, TENNESSEE 37243-1402  
(615) 253-1122

**HOWARD H. ELEY**  
COMMISSIONER

**BILL LEE**  
GOVERNOR

TO: Ben Price, Assistant Chief Engineer of Operations  
FROM: Lee Smith, Interim Director of Traffic Operations  
SUBJECT: **Proprietary Item Request and Justification**  
**City of Crossville**

The City of Crossville is requesting the following items be used in all signalization projects within their jurisdiction over the next three years where Federal and/or State funding are used.

- 1) **Traffic Signal Controllers:** Oriux (Peek) Controllers.
- 2) **Malfunction Management Units (MMU):** Oriux (Peek) MMUs.
- 3) **Traffic Signal Detection:** Wavetronix Smartsensor Matrix and Advance Radar Detection.
- 4) **Pedestrian APS Pushbutton Detection:** Pelco.

The above items are essential for synchronization with existing facilities. The City of Crossville staff has been extensively trained to install, operate, maintain, program, troubleshoot, and repair these items. This allows technicians to quickly diagnose issues which reduces the time required to maintain the system overall and helps keep the system operational during heavy traffic times to ensure maximum capacity of the synchronized system. By utilizing these items as the standard for the City of Crossville, there will be a cost savings in stocking replacement equipment and will result in faster and less costly repair. See attached letter for additional justification details of this request.

I, Lee Smith, Interim Director of the Traffic Operations Division of the Tennessee Department of Transportation, do hereby certify that in accordance with the requirements of 23 CFR 635.411(a) (2) that the patented or proprietary items listed above are essential for the synchronization of existing facilities.

  
Lee Smith (Jul 5, 2023 16:45 CDT)

Interim Director of Traffic Operations



Assistant Chief Engineer of Operations

Jul 5, 2023

Date

City of Crossville  
Engineering Department



392 N Main St.  
Crossville, TN 38555  
Phone 931-484-5113  
Fax 931-484-7713

October 7, 2022

To: Steve Bryan  
Tennessee Department of Transportation  
505 Deaderick St. Suite 1200  
Nashville, TN 37243

RE: Request for Proprietary Traffic Signal Products Certification.  
Traffic Signal Controller, Traffic Monitors, Vehicle Detection, And Pedestrian Bush Button  
Crossings

Dear Mr. Bryan:

The City of Crossville would like to request the use of ORIUX (PEEK) Controllers (formerly PEEK), ORIUX (PEEK) Traffic Monitors (formerly PEEK), WAVETRONICS Vehicle Detection, and PELCO Pedestrian Crossing Equipment on all TDOT projects which include traffic signals that are maintained by the City of Crossville, whether they are City or County owned. ORIUX (PEEK) acquired the PEEK brand, so the equipment is the same except for the brand name.

Currently there are forty-four (44) signalized intersections that the City of Crossville operates and maintains. ORIUX (PEEK) Controllers and ORIUX (PEEK) Traffic Monitors operate all forty-four (44) of the signalized intersections. Currently there are eleven (11) signalized intersections which utilize WAVETRONICS Vehicle Detection. The City of Crossville plans to install this detection system on all new signals and convert existing signals as the current detection fails. There are five (5) signalized intersections which have PELCO pedestrian crossing equipment currently in use. PELCO signal equipment adheres to ADA compliance criteria. The City of Crossville plans to install this pedestrian crossing system on all new signals and convert existing signals as the current pedestrian crossing equipment fails.

The City of Crossville's signal technicians have been extensively trained to maintain, program, and troubleshoot ORIUX (PEEK) Traffic Signal Controllers, ORIUX (PEEK) Traffic Monitors, PELCO pedestrian crossing equipment, and WAVETRONICS Vehicle Detection. We believe continuing the use of ORIUX (PEEK), WAVETRONICS, and PELCO equipment will allow the signal systems to be maintained and repaired efficiently with minimized down time due to parts in stock, and familiarity with this product line. The use of the above-mentioned products will also allow the synchronization with the existing facilities which are owned/maintained by the City of Crossville.

Should you have any questions please call me at 931-456-6172.

Sincerely,

A handwritten signature in blue ink that reads "Tim Begley".

Tim Begley  
Director of Engineering